

REPORT TITLE: A STUDY OF THE RELATIONSHIP OF
GEOLOGICAL FORMATION TO THE
NORM

TYPE OF REPORT: QUARTERLY TECHNICAL PROGRESS
REPORT

INSTITUTION: CENTER FOR ENERGY AND ENVIRON-
MENTAL STUDIES
SOUTHERN UNIVERSITY
BATON ROUGE, LA. 70813

REPORTING PERIOD START DATE: April 1, 2002

REPORTING PERIOD END DATE: June 30, 2002

PRINCIPAL AUTHORS: TALMAGE P. BURSH
DERALD CHRISS

REPORT ISSUE DATE: July 24, 2002

DOE AWARD NUMBER: DE-FG22-94MT94014

SUBMITTING ORGANIZATION: Southern University
Center for Energy and
Environmental Studies
P.O. Box 9764
Baton Rouge, LA 70813

TABLE OF CONTENTS

	PAGE
Abstract	i
Disclaimer	ii
Executive Summary	1
Project Introduction	1
Results and Discussion	1
Conclusion	1

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

ABSTRACT

Naturally Occurring Radioactive Materials (NORM) is a common and costly contaminant of produced waters associated with natural gas production and exploration. One way of combatting this problem is by identifying the problem beforehand. Our approach to this problem involves development of NORM prediction capabilities based on the geological environment.

During quarter thirty one of this project, most work has been completed in accordance with the project scope of work. We are currently finalizing our produced water sample results.

EXECUTIVE SUMMARY:

The Southern University Center for Energy and Environmental Studies is currently studying relationships which may exist between geological and radiological factors (NORM) in produced water samples. The goal also involves the observation of selected water parameters and determine their relationship to the aforementioned factors as well.

PROJECT INTRODUCTION:

This project is to consist of three major tasks: (1) Radiological Analysis, (2) Correlative Results with Respect to NORM Activity, geological parameters and metals content, and (3) Technology Transfer.

The radiological results have been done by a subcontractor with the chemical analysis of samples and the geological component to be generated in-house or by another (as of yet undetermined source).

RESULTS AND DISCUSSION:

During this reporting period, efforts were again, geared towards finalizing the produced water samples. The appropriate methods, etc., are in place and have been employed.

CONCLUSION:

We have obtained results and have reached most conclusions from these results. In addition, attempts to finalize the in-house geological aspects of the project are continuing.